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<110> SONDEREGGER, Peter

<120> NEUROTRYPSIN

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<141> 1999-10-26

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ccc cct gcg ggt ccg cac tac ccc tat tac ctt ccc acc cag cag cgg   199
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ccc ccg acg acg cgt ccg ccg ccg cct ctc ccg cgc ttc ccg cgc ccc   247
Pro Pro Thr Thr Arg Pro Pro Pro Pro Leu Pro Arg Phe Pro Arg Pro
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ccg cgg gcg ctc cct gcc cag cgc ccg cac gcc ctc cag gcc ggg cac   295
Pro Arg Ala Leu Pro Ala Gln Arg Pro His Ala Leu Gln Ala Gly His
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acg ccc cgg ccg cac ccc tgg ggc tgc ccc gcc ggc gag cca tgg gtc   343
Thr Pro Arg Pro His Pro Trp Gly Cys Pro Ala Gly Glu Pro Trp Val
65                  70                  75                  80

agc gtg acg gac ttc ggc gcc ccg tgt ctg cgg tgg gcg gag gtg cca   391
Ser Val Thr Asp Phe Gly Ala Pro Cys Leu Arg Trp Ala Glu Val Pro
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ccc ttc ctg gag cgg tcg ccc cca gcg agc tgg gct cag ctg cga gga   439
Pro Phe Leu Glu Arg Ser Pro Pro Ala Ser Trp Ala Gln Leu Arg Gly
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cag cgc cac aac ttt tgt cgg agc ccc gac ggc gcg ggc aga ccc tgg   487
Gln Arg His Asn Phe Cys Arg Ser Pro Asp Gly Ala Gly Arg Pro Trp
        115                 120                 125

tgt ttc tac gga gac gcc cgt ggc aag gtg gac tgg ggc tac tgc gac   535
Cys Phe Tyr Gly Asp Ala Arg Gly Lys Val Asp Trp Gly Tyr Cys Asp
    130                 135                 140

tgc aga cac gga tca gta cga ctt cgt ggc ggc aaa aat gag ttt gaa   583
Cys Arg His Gly Ser Val Arg Leu Arg Gly Gly Lys Asn Glu Phe Glu
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ggc aca gtg gaa gta tat gca agt gga gtt tgg ggc act gtc tgt agc   631
Gly Thr Val Glu Val Tyr Ala Ser Gly Val Trp Gly Thr Val Cys Ser
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agc cac tgg gat gat tct gat gca tca gtc att tgt cac cag ctg cag   679
Ser His Trp Asp Asp Ser Asp Ala Ser Val Ile Cys His Gln Leu Gln
            180                 185                 190

ctg gga gga aaa gga ata gca aaa caa acc ccg ttt tct gga ctg ggc   727
Leu Gly Gly Lys Gly Ile Ala Lys Gln Thr Pro Phe Ser Gly Leu Gly
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ctt att ccc att tat tgg agc aat gtc cgt tgc cga gga gat gaa gaa   775
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225                 230                 235                 240

cag aag atg gca gct gct gtc acg tgt agc ttt tcc cat ggc cca acg   871
Gln Lys Met Ala Ala Ala Val Thr Cys Ser Phe Ser His Gly Pro Thr
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ttc ccc atc att cgc ctt gct gga ggc agc agt gtg cat gaa ggc cgg   919
Phe Pro Ile Ile Arg Leu Ala Gly Gly Ser Ser Val His Glu Gly Arg
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gtg gag ctc tac cat gct ggc cag tgg gga acc gtt tgt gat gac caa   967
Val Glu Leu Tyr His Ala Gly Gln Trp Gly Thr Val Cys Asp Asp Gln
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Gly Ile Ala Lys Ala Trp His Gln Ala Tyr Phe Gly Glu Gly Ser Gly
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cca gtt atg ttg gat gaa gta cgc tgc act ggg aat gag ctt tca att   1111
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                325                 330                 335

gag cag tgt cca aag agc tcc tgg gga gag cat aac tgt ggc cat aaa   1159
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ctt gca ggt ggg aaa ggc agc cat gag ggt cgc ttg gag gta tat tac   1255
Leu Ala Gly Gly Lys Gly Ser His Glu Gly Arg Leu Glu Val Tyr Tyr
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Arg Gly Gln Trp Gly Thr Val Cys Asp Asp Gly Trp Thr Glu Leu Asn
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aca tac gtg gtt tgt cga cag ttg gga ttt aaa tat ggt aaa caa gca   1351
Thr Tyr Val Val Cys Arg Gln Leu Gly Phe Lys Tyr Gly Lys Gln Ala
                405                 410                 415

tct gcc aac cat ttt gaa gaa agc aca ggg ccc ata tgg ttg gat gac   1399
Ser Ala Asn His Phe Glu Glu Ser Thr Gly Pro Ile Trp Leu Asp Asp
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gtc agc tgc tca gga aag gaa acc aga ttt ctt cag tgt tcc agg cga   1447
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tgc tac cct ggc ggc gag gga cac agg ctc tct ctg ggt ttt cct gtc   1543
Cys Tyr Pro Gly Gly Glu Gly His Arg Leu Ser Leu Gly Phe Pro Val
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aga ctg atg gat gga gaa aat aag aaa gaa gga cga gtg gag gtt ttt   1591
Arg Leu Met Asp Gly Glu Asn Lys Lys Glu Gly Arg Val Glu Val Phe
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atc aat ggc cag tgg gga aca atc tgt gat gat gga tgg act gat aag   1639
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gca aga acc atg gct tac ttt gga gaa gga aaa gga ccc atc cat gtg   1735
Ala Arg Thr Met Ala Tyr Phe Gly Glu Gly Lys Gly Pro Ile His Val
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Lys Gln Asp Ile Gly Arg His Asn Cys Arg His Ser Glu Asp Ala Gly
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gtt att tgt gat tat ttt ggc aag aag gcc tca ggt aac agt aat aaa   1879
Val Ile Cys Asp Tyr Phe Gly Lys Lys Ala Ser Gly Asn Ser Asn Lys
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Val Gln Gln Ile Val Ile His Arg Glu Tyr Arg Pro Asp Arg Ser Asp
690 695 700

tat gac ata gcc ctg gtt aga tta caa gga cca gaa gag caa tgt gcc 2263
Tyr Asp Ile Ala Leu Val Arg Leu Gln Gly Pro Glu Glu Gln Cys Ala
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Arg Phe Ser Ser His Val Leu Pro Ala Cys Leu Pro Leu Trp Arg Glu
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Lys Asp Ser Pro Gly Val Tyr Thr Lys Val Ser Ala Phe Val Pro Trp
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Gly Val Ile Arg Leu Ala Gly Gly Lys Gly Ser His Glu Gly Arg Leu
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Ala Asp Cys Ile Lys Gln Asp Ile Gly Arg His Asn Cys Arg His Ser
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Glu Asp Ala Gly Val Ile Cys Asp Tyr Phe Gly Lys Lys Ala Ser Gly
575 580 585

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655 660 665

Ala Val Arg Val Gly Asp Tyr His Thr Leu Val Pro Glu Glu Phe Glu
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685 690 695 700

Asp Arg Ser Asp Tyr Asp Ile Ala Leu Val Arg Leu Gln Gly Pro Glu
705 710 715

Glu Gln Cys Ala Arg Phe Ser Ser His Val Leu Pro Ala Cys Leu Pro
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            800                 805                 810

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                10                  15                  20

cac tac ctt ccc agc tcg cgg cgg cca ccc agg acc ccg cgc ttc ccg   197
His Tyr Leu Pro Ser Ser Arg Arg Pro Pro Arg Thr Pro Arg Phe Pro
            25                  30                  35

ctc ccg ctg cgg atc ccc gct gcc cag cgc ccg cag gtc ctc agc acc   245
Leu Pro Leu Arg Ile Pro Ala Ala Gln Arg Pro Gln Val Leu Ser Thr
        40                  45                  50

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    55                  60                  65

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70                  75                  80                  85

gtg ccg ccc ttc ctg gag cgg tcg ccc ccg gcc agt tgg gct gag ctg   389
Val Pro Pro Phe Leu Glu Arg Ser Pro Pro Ala Ser Trp Ala Glu Leu
                90                  95                  100

cga ggg cag ccg cac aac ttc tgc cgg agc ccg gat ggc tcg ggc aga   437
Arg Gly Gln Pro His Asn Phe Cys Arg Ser Pro Asp Gly Ser Gly Arg
            105                 110                 115

cct tgg tgc ttc tat cgg aat gcc cag ggc aaa gta gac tgg ggc tac   485
Pro Trp Cys Phe Tyr Arg Asn Ala Gln Gly Lys Val Asp Trp Gly Tyr
        120                 125                 130

tgc gat tgt ggt caa ggc ccg gcg ttg ccc gtc att cgc ctt gtt ggt   533
Cys Asp Cys Gly Gln Gly Pro Ala Leu Pro Val Ile Arg Leu Val Gly
    135                 140                 145

ggg aac agt ggg cat gaa ggt cga gtg gag ctg tac cac gct ggc cag   581
Gly Asn Ser Gly His Glu Gly Arg Val Glu Leu Tyr His Ala Gly Gln
150                 155                 160                 165

tgg ggg acc atc tgt gac gac caa tgg gac aat gca gac gca gac gtc   629
Trp Gly Thr Ile Cys Asp Asp Gln Trp Asp Asn Ala Asp Ala Asp Val
                170                 175                 180

atc tgt agg cag ctg ggg ctc agt ggc att gcc aaa gca tgg cat cag   677
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            185                 190                 195

gca cat ttt ggg gaa gga tct ggc cca ata ttg ttg gat gaa gta cgc   725
Ala His Phe Gly Glu Gly Ser Gly Pro Ile Leu Leu Asp Glu Val Arg
        200                 205                 210
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ggc gaa cat aac tgt ggc cat aaa gaa gat gct gga gtg tct tgt gtt   821
Gly Glu His Asn Cys Gly His Lys Glu Asp Ala Gly Val Ser Cys Val
230                 235                 240                 245

cct cta aca gat ggt gtc atc aga ctg gca gga gga aaa agt acc cat   869
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                250                 255                 260

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            265                 270                 275

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gga ttt aaa tac ggc aaa cag tcc tct gtg aac cat ttt gat ggc agc   1013
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agc ttc att cag tgt tcc agg aga cag tgg gga agg cat gac tgc agc   1109
Ser Phe Ile Gln Cys Ser Arg Arg Gln Trp Gly Arg His Asp Cys Ser
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cat aga gaa gat gtg ggc ctc acc tgc tat cct gac agc gat gga cat   1157
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            345                 350                 355

agg ctt tct cca ggt ttt ccc atc aga cta gtg gat gga gag aat aag   1205
Arg Leu Ser Pro Gly Phe Pro Ile Arg Leu Val Asp Gly Glu Asn Lys
        360                 365                 370

aag gaa gga cga gtg gag gtt ttt gtc aat ggc caa tgg gga aca atc   1253
Lys Glu Gly Arg Val Glu Val Phe Val Asn Gly Gln Trp Gly Thr Ile
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tgc gat gac gga tgg acc gat aag cat gca gct gtg atc tgc cgg caa   1301
Cys Asp Asp Gly Trp Thr Asp Lys His Ala Ala Val Ile Cys Arg Gln
390                 395                 400                 405

ctt ggc tat aag ggt cct gcc aga gca agg act atg gct tat ttt ggg   1349
Leu Gly Tyr Lys Gly Pro Ala Arg Ala Arg Thr Met Ala Tyr Phe Gly
                410                 415                 420

gaa gga aaa ggc ccc atc cac atg gat aat gtg aag tgc aca gga aat   1397
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gag aag gcc ctg gct gac tgt gtc aaa caa gac att gga agg cac aac   1445
Glu Lys Ala Leu Ala Asp Cys Val Lys Gln Asp Ile Gly Arg His Asn
        440                 445                 450

tgc cgc cac agt gag gat gca gga gtc atc tgt gac tat tta gag aag   1493
Cys Arg His Ser Glu Asp Ala Gly Val Ile Cys Asp Tyr Leu Glu Lys
    455                 460                 465

aaa gca tca agt agt ggt aat aaa gag atg ctc tca tct gga tgt gga   1541
Lys Ala Ser Ser Ser Gly Asn Lys Glu Met Leu Ser Ser Gly Cys Gly
470                 475                 480                 485

ctg agg tta ctg cac cgt cgg cag aaa cgg atc att ggt ggg aac aat   1589
Leu Arg Leu Leu His Arg Arg Gln Lys Arg Ile Ile Gly Gly Asn Asn
                490                 495                 500

tct tta agg ggt gcc tgg cct tgg cag gct tcc ctc agg ctg agg tcg   1637
Ser Leu Arg Gly Ala Trp Pro Trp Gln Ala Ser Leu Arg Leu Arg Ser
            505                 510                 515

gcc cat gga gac ggc agg ctg ctt tgt gga gct acc ctt ctg agt agc   1685
Ala His Gly Asp Gly Arg Leu Leu Cys Gly Ala Thr Leu Leu Ser Ser
        520                 525                 530

tgc tgg gtc ctg aca gct gca cac tgc ttc aaa agg tac gga aac aac   1733
Cys Trp Val Leu Thr Ala Ala His Cys Phe Lys Arg Tyr Gly Asn Asn
    535                 540                 545

tcg agg agc tat gca gtt cga gtt ggg gat tat cat act ctg gtc cca   1781
Ser Arg Ser Tyr Ala Val Arg Val Gly Asp Tyr His Thr Leu Val Pro
550                 555                 560                 565

gag gag ttt gaa caa gaa ata ggg gtt caa cag att gtg att cac agg   1829
Glu Glu Phe Glu Gln Glu Ile Gly Val Gln Gln Ile Val Ile His Arg
                570                 575                 580

aac tac agg cca gac aga agc gac tat gac att gcc ctg gtt aga ttg   1877
Asn Tyr Arg Pro Asp Arg Ser Asp Tyr Asp Ile Ala Leu Val Arg Leu
            585                 590                 595

caa gga cca ggg gag caa tgt gcc aga cta agc acc cac gtt ttg cca   1925
Gln Gly Pro Gly Glu Gln Cys Ala Arg Leu Ser Thr His Val Leu Pro
        600                 605                 610

gcc tgt tta cct cta tgg aga gag agg cca cag aaa aca gcc tcc aac   1973
Ala Cys Leu Pro Leu Trp Arg Glu Arg Pro Gln Lys Thr Ala Ser Asn
    615                 620                 625

tgt cac ata aca gga tgg gga gac aca ggt cgt gcc tac tca aga act   2021
Cys His Ile Thr Gly Trp Gly Asp Thr Gly Arg Ala Tyr Ser Arg Thr
630                 635                 640                 645

cta caa caa gct gct gtg cct ctg tta ccc aag agg ttt tgt aaa gag   2069
Leu Gln Gln Ala Ala Val Pro Leu Leu Pro Lys Arg Phe Cys Lys Glu
                650                 655                 660
```

```
agg tac aag gga cta ttt act ggg aga atg ctc tgt gct ggg aac ctc   2117
Arg Tyr Lys Gly Leu Phe Thr Gly Arg Met Leu Cys Ala Gly Asn Leu
            665                 670                 675

caa gaa gac aac cgt gtg gac agc tgc cag gga gac agt gga gga cca   2165
Gln Glu Asp Asn Arg Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro
        680                 685                 690

ctc atg tgt gaa aag cct gat gag tcc tgg gtt gtg tat ggg gtg act   2213
Leu Met Cys Glu Lys Pro Asp Glu Ser Trp Val Val Tyr Gly Val Thr
    695                 700                 705

tcc tgg ggg tat gga tgt gga gtc aaa gac act cct gga gtt tat acc   2261
Ser Trp Gly Tyr Gly Cys Gly Val Lys Asp Thr Pro Gly Val Tyr Thr
710                 715                 720                 725

aga gtc ccc gct ttt gta cct tgg ata aaa agt gtc acc agt ctg       2306
Arg Val Pro Ala Phe Val Pro Trp Ile Lys Ser Val Thr Ser Leu
                730                 735                 740

taacttatgg aaagctcaag aaatagtaaa acagtaacta ttcagtcttc           2356
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<210> 4
<211> 761
<212> PRT
<213> Mus musculus

<400> 4

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Met Ala Leu Ala Arg Cys Val Leu Ala Val Ile Leu Gly Ala Leu Ser
    -20                 -15                 -10

Val Val Ala Arg Ala Asp Pro Val Ser Arg Ser Pro Leu His Arg Pro
 -5              -1   1               5                  10

His Pro Ser Pro Pro Arg Ser Gln His Ala His Tyr Leu Pro Ser Ser
            15                  20                  25

Arg Arg Pro Pro Arg Thr Pro Arg Phe Pro Leu Pro Leu Arg Ile Pro
        30                  35                  40

Ala Ala Gln Arg Pro Gln Val Leu Ser Thr Gly His Thr Pro Pro Thr
    45                  50                  55

Ile Pro Arg Arg Cys Gly Ala Gly Glu Ser Trp Gly Asn Ala Thr Asn
 60                  65                  70                  75

Leu Gly Val Pro Cys Leu His Trp Asp Glu Val Pro Pro Phe Leu Glu
                80                  85                  90

Arg Ser Pro Pro Ala Ser Trp Ala Glu Leu Arg Gly Gln Pro His Asn
            95                  100                 105

Phe Cys Arg Ser Pro Asp Gly Ser Gly Arg Pro Trp Cys Phe Tyr Arg
        110                 115                 120
```

Asn Ala Gln Gly Lys Val Asp Trp Gly Tyr Cys Asp Cys Gly Gln Gly
125 130 135

Pro Ala Leu Pro Val Ile Arg Leu Val Gly Gly Asn Ser Gly His Glu
140 145 150 155

Gly Arg Val Glu Leu Tyr His Ala Gly Gln Trp Gly Thr Ile Cys Asp
160 165 170

Asp Gln Trp Asp Asn Ala Asp Ala Asp Val Ile Cys Arg Gln Leu Gly
175 180 185

Leu Ser Gly Ile Ala Lys Ala Trp His Gln Ala His Phe Gly Glu Gly
190 195 200

Ser Gly Pro Ile Leu Leu Asp Glu Val Arg Cys Thr Gly Asn Glu Leu
205 210 215

Ser Ile Glu Gln Cys Pro Lys Ser Ser Trp Gly Glu His Asn Cys Gly
220 225 230 235

His Lys Glu Asp Ala Gly Val Ser Cys Val Pro Leu Thr Asp Gly Val
240 245 250

Ile Arg Leu Ala Gly Gly Lys Ser Thr His Glu Gly Arg Leu Glu Val
255 260 265

Tyr Tyr Lys Gly Gln Trp Gly Thr Val Cys Asp Asp Gly Trp Thr Glu
270 275 280

Met Asn Thr Tyr Val Ala Cys Arg Leu Leu Gly Phe Lys Tyr Gly Lys
285 290 295

Gln Ser Ser Val Asn His Phe Asp Gly Ser Asn Arg Pro Ile Trp Leu
300 305 310 315

Asp Asp Val Ser Cys Ser Gly Lys Glu Val Ser Phe Ile Gln Cys Ser
320 325 330

Arg Arg Gln Trp Gly Arg His Asp Cys Ser His Arg Glu Asp Val Gly
335 340 345

Leu Thr Cys Tyr Pro Asp Ser Asp Gly His Arg Leu Ser Pro Gly Phe
350 355 360

Pro Ile Arg Leu Val Asp Gly Glu Asn Lys Lys Glu Gly Arg Val Glu
365 370 375

Val Phe Val Asn Gly Gln Trp Gly Thr Ile Cys Asp Asp Gly Trp Thr
380 385 390 395

Asp Lys His Ala Ala Val Ile Cys Arg Gln Leu Gly Tyr Lys Gly Pro
400 405 410

Ala Arg Ala Arg Thr Met Ala Tyr Phe Gly Glu Gly Lys Gly Pro Ile

			415					420					425		
His	Met	Asp	Asn	Val	Lys	Cys	Thr	Gly	Asn	Glu	Lys	Ala	Leu	Ala	Asp
		430					435					440			
Cys	Val	Lys	Gln	Asp	Ile	Gly	Arg	His	Asn	Cys	Arg	His	Ser	Glu	Asp
	445					450					455				
Ala	Gly	Val	Ile	Cys	Asp	Tyr	Leu	Glu	Lys	Lys	Ala	Ser	Ser	Ser	Gly
460					465					470					475
Asn	Lys	Glu	Met	Leu	Ser	Ser	Gly	Cys	Gly	Leu	Arg	Leu	Leu	His	Arg
				480					485					490	
Arg	Gln	Lys	Arg	Ile	Ile	Gly	Gly	Asn	Asn	Ser	Leu	Arg	Gly	Ala	Trp
			495					500					505		
Pro	Trp	Gln	Ala	Ser	Leu	Arg	Leu	Arg	Ser	Ala	His	Gly	Asp	Gly	Arg
		510					515					520			
Leu	Leu	Cys	Gly	Ala	Thr	Leu	Leu	Ser	Ser	Cys	Trp	Val	Leu	Thr	Ala
	525					530					535				
Ala	His	Cys	Phe	Lys	Arg	Tyr	Gly	Asn	Asn	Ser	Arg	Ser	Tyr	Ala	Val
540					545					550					555
Arg	Val	Gly	Asp	Tyr	His	Thr	Leu	Val	Pro	Glu	Glu	Phe	Glu	Gln	Glu
				560					565					570	
Ile	Gly	Val	Gln	Gln	Ile	Val	Ile	His	Arg	Asn	Tyr	Arg	Pro	Asp	Arg
			575					580					585		
Ser	Asp	Tyr	Asp	Ile	Ala	Leu	Val	Arg	Leu	Gln	Gly	Pro	Gly	Glu	Gln
		590					595					600			
Cys	Ala	Arg	Leu	Ser	Thr	His	Val	Leu	Pro	Ala	Cys	Leu	Pro	Leu	Trp
	605					610					615				
Arg	Glu	Arg	Pro	Gln	Lys	Thr	Ala	Ser	Asn	Cys	His	Ile	Thr	Gly	Trp
620					625					630					635
Gly	Asp	Thr	Gly	Arg	Ala	Tyr	Ser	Arg	Thr	Leu	Gln	Gln	Ala	Ala	Val
				640					645					650	
Pro	Leu	Leu	Pro	Lys	Arg	Phe	Cys	Lys	Glu	Arg	Tyr	Lys	Gly	Leu	Phe
			655					660					665		
Thr	Gly	Arg	Met	Leu	Cys	Ala	Gly	Asn	Leu	Gln	Glu	Asp	Asn	Arg	Val
		670					675					680			
Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Met	Cys	Glu	Lys	Pro
	685					690					695				
Asp	Glu	Ser	Trp	Val	Val	Tyr	Gly	Val	Thr	Ser	Trp	Gly	Tyr	Gly	Cys
700					705					710					715

Gly Val Lys Asp Thr Pro Gly Val Tyr Thr Arg Val Pro Ala Phe Val
720 725 730

Pro Trp Ile Lys Ser Val Thr Ser Leu
735 740

<210> 5
<211> 257
<212> PRT
<213> Homo sapiens

<400> 5
Cys Gly Leu Arg Leu Leu His Arg Arg Gln Lys Arg Ile Ile Gly Gly
1 5 10 15

Lys Asn Ser Leu Arg Gly Gly Trp Pro Trp Gln Val Ser Leu Arg Leu
20 25 30

Lys Ser Ser His Gly Asp Gly Arg Leu Leu Cys Gly Ala Thr Leu Leu
35 40 45

Ser Ser Cys Trp Val Leu Thr Ala Ala His Cys Phe Lys Arg Tyr Gly
50 55 60

Asn Ser Thr Arg Ser Tyr Ala Val Arg Val Gly Asp Tyr His Thr Leu
65 70 75 80

Val Pro Glu Glu Phe Glu Glu Glu Ile Gly Val Gln Gln Ile Val Ile
85 90 95

His Arg Glu Tyr Arg Pro Asp Arg Ser Asp Tyr Asp Ile Ala Leu Val
100 105 110

Arg Leu Gln Gly Pro Glu Glu Gln Cys Ala Arg Phe Ser Ser His Val
115 120 125

Leu Pro Ala Cys Leu Pro Leu Trp Arg Glu Arg Pro Gln Lys Thr Ala
130 135 140

Ser Asn Cys Tyr Ile Thr Gly Trp Gly Asp Thr Gly Arg Ala Tyr Ser
145 150 155 160

Arg Thr Leu Gln Gln Ala Ala Ile Pro Leu Leu Pro Lys Arg Phe Cys
165 170 175

Glu Glu Arg Tyr Lys Gly Arg Phe Thr Gly Arg Met Leu Cys Ala Gly
180 185 190

Asn Leu His Glu His Lys Arg Val Asp Ser Cys Gln Gly Asp Ser Gly
195 200 205

Gly Pro Leu Met Cys Glu Arg Pro Gly Glu Ser Trp Val Val Tyr Gly
210 215 220

Val Thr Ser Trp Gly Tyr Gly Cys Gly Val Lys Asp Ser Pro Gly Val

225 230 235 240

Tyr Thr Lys Val Ser Ala Phe Val Pro Trp Ile Lys Ser Val Thr Lys
245 250 255

Leu

<210> 6
<211> 257
<212> PRT
<213> Mus musculus

<400> 6
Cys Gly Leu Arg Leu Leu His Arg Arg Gln Lys Arg Ile Ile Gly Gly
1 5 10 15

Asn Asn Ser Leu Arg Gly Ala Trp Pro Trp Gln Ala Ser Leu Arg Leu
20 25 30

Arg Ser Ala His Gly Asp Gly Arg Leu Leu Cys Gly Ala Thr Leu Leu
35 40 45

Ser Ser Cys Trp Val Leu Thr Ala Ala His Cys Phe Lys Arg Tyr Gly
50 55 60

Asn Asn Ser Arg Ser Tyr Ala Val Arg Val Gly Asp Tyr His Thr Leu
65 70 75 80

Val Pro Glu Glu Phe Glu Gln Glu Ile Gly Val Gln Gln Ile Val Ile
85 90 95

His Arg Asn Tyr Arg Pro Asp Arg Ser Asp Tyr Asp Ile Ala Leu Val
100 105 110

Arg Leu Gln Gly Pro Gly Glu Gln Cys Ala Arg Leu Ser Thr His Val
115 120 125

Leu Pro Ala Cys Leu Pro Leu Trp Arg Glu Arg Pro Gln Lys Thr Ala
130 135 140

Ser Asn Cys His Ile Thr Gly Trp Gly Asp Thr Gly Arg Ala Tyr Ser
145 150 155 160

Arg Thr Leu Gln Gln Ala Ala Val Pro Leu Leu Pro Lys Arg Phe Cys
165 170 175

Lys Glu Arg Tyr Lys Gly Leu Phe Thr Gly Arg Met Leu Cys Ala Gly
180 185 190

Asn Leu Gln Glu Asp Asn Arg Val Asp Ser Cys Gln Gly Asp Ser Gly
195 200 205

Gly Pro Leu Met Cys Glu Lys Pro Asp Glu Ser Trp Val Val Tyr Gly

210 215 220

Val Thr Ser Trp Gly Tyr Gly Cys Gly Val Lys Asp Thr Pro Gly Val
225 230 235 240

Tyr Thr Arg Val Pro Ala Phe Val Pro Trp Ile Lys Ser Val Thr Ser
245 250 255

Leu

<210> 7
<211> 23
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (6)..(18)
<223> Nucleotides 6, 9, 12, 15, and 18 are n wherein n = i.

<400> 7
tgggtnsynw sngcngcnca ttg 23

<210> 8
<211> 20
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (9)..(18)
<223> Nucleotides 9, 15, and 18 are n wherein n = i.

<400> 8
acrbtyccnc trwsnccncc 20

<210> 9
<211> 14
<212> PRT
<213> Mus musculus

<400> 9
Ser Ser Cys Trp Val Leu Ser Ala Ala His Cys Phe Leu Glu
1 5 10

<210> 10
<211> 13
<212> PRT
<213> Mus musculus

<400> 10
His Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val
1 5 10

<210> 11
<211> 14
<212> PRT
<213> Mus musculus

<400> 11
Ser Pro Cys Trp Val Ala Ser Ala Ala His Cys Phe Ile Gln
1 5 10

<210> 12
<211> 13
<212> PRT
<213> Mus musculus

<400> 12
Thr Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro Leu Ile
1 5 10

<210> 13
<211> 14
<212> PRT
<213> Mus musculus

<400> 13
Ser Asp Arg Trp Val Leu Thr Ala Ala His Cys Ile Leu Tyr
1 5 10

<210> 14
<211> 13
<212> PRT
<213> Mus musculus

<400> 14
Gly Asp Ala Cys Glu Gly Asp Ser Gly Gly Pro Phe Val
1 5 10

<210> 15
<211> 14
<212> PRT
<213> Mus musculus

<400> 15
Ala Pro Glu Trp Val Leu Thr Ala Ala His Cys Leu Lys Ser
1 5 10

<210> 16
<211> 13
<212> PRT
<213> Mus musculus

<400> 16
Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val
1 5 10

<210> 17
<211> 14
<212> PRT
<213> Mus musculus

<400> 17
Asn Asp Gln Trp Val Val Ser Ala Ala His Cys Tyr Lys Tyr
1 5 10

<210> 18
<211> 13
<212> PRT
<213> Mus musculus

<400> 18
Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Val Val
1 5 10

<210> 19
<211> 14
<212> PRT
<213> Mus musculus

<400> 19
Ser Glu Asp Trp Val Val Thr Ala Ala His Cys Gly Val Lys
1 5 10

<210> 20
<211> 13
<212> PRT
<213> Mus musculus

<400> 20
Val Ser Ser Cys Met Gly Asp Ser Gly Gly Pro Leu Val
1 5 10

<210> 21
<211> 14
<212> PRT
<213> Mus musculus

<400> 21
Ala Asn Asn Trp Val Leu Thr Ala Ala His Cys Leu Ser Asn
1 5 10

<210> 22
<211> 13
<212> PRT
<213> Mus musculus

<400> 22
Thr Ser Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Asn
1 5 10

<210> 23
<211> 32
<212> DNA
<213> EcoRI and BamHI

<220>
<221> misc_feature
<222> (15)..(27)
<223> Nucleotides 15, 18, 21, 24, and 27 are n wherein n = i.

<220>
<221> misc_feature
<222> (16)
<223> Nucleotide 16 is n wherein n c/g.

<220>
<221> misc_feature
<222> (17)
<223> Nucleotide 17 is n wherein n = t/c.

<220>
<221> misc_feature
<222> (19)
<223> Nucleotide 19 is n wherein n = t/a.

<220>
<221> misc_feature
<222> (20)
<223> Nucleotide 20 is n wherein n = g/c.

<220>
<221> misc_feature
<222> (30)
<223> Nucleotide 30 is n wherein n = t/c.

<400> 23
ggggaattct gggtnnnnnn ngcngcncan tg 32

<210> 24
<211> 29
<212> DNA
<213> EcoRI and BamHI

<220>
<221> misc_feature
<222> (12)..(21)
<223> Nucleotides 12, 15, and 21 are n wherein n = i.

<220>
<221> misc_feature
<222> (16)
<223> Nucleotide 16 is n wherein n = g/c.

<220>
<221> misc_feature
<222> (17)
<223> Nucleotide 17 is n wherein n = a/t.

<220>
<221> misc_feature
<222> (18)
<223> Nucleotide 18 is n wherein n = a/g.

<220>
<221> misc_feature
<222> (24)
<223> Nucleotide 24 is n wherein n = c/t.

<220>
<221> misc_feature
<222> (26)
<223> Nucleotide 26 is n wherein = g/c/t.

<220>
<221> misc_feature
<222> (27)
<223> Nucleotide 27 is n wherein n = g/a.

<400> 24
ggggggatccc cnccnnnntc nccntnnca 29

<210> 25
<211> 33
<212> DNA
<213> HindIII and Xhol

<220>
<221> misc_feature
<222> (12)..(27)
<223> Nucleotides 12, 21, 24, and 27 are n wherein n = i.

<220>
<221> misc_feature
<222> (15)
<223> Nucleotide 15 is n wherein n = a/g.

<220>
<221> misc_feature
<222> (25)
<223> Nucleotide 25 is n wherein n = a/g.

<220>
<221> misc_feature
<222> (30)
<223> Nucleotide 30 is n wherein n = c/t.

<220>
<221> misc_feature
<222> (33)
<223> Nucleotide 33 is n wherein n = c/t.

<400> 25
gggaagcttg gncantgggg nacnntntgn gan 33

<210> 26
<211> 33
<212> DNA
<213> HindIII and Xhol

<220>
<221> misc_feature
<222> (15)..(28)
<223> Nucleotides 15 and 28 are n wherein n = i.

<400> 26
gggctcgagc cccancctgt tatgtaanag ttg 33

<210> 27
<211> 17
<212> PRT
<213> Mus musculus

<400> 27
Ser Arg Ser Pro Leu His Arg Pro His Pro Ser Pro Pro Arg Ser Gln
1 5 10 15

Xaa

<210> 28
<211> 13
<212> PRT
<213> Mus musculus

<400> 28

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Leu Pro Ser Ser Arg Arg Pro Pro Arg Thr Pro Arg Phe
  1               5                   10
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